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09/975,276	10/10/2001	T. Eric Chornenky	3607-010584	2337	
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Floyd S. Scheier 391 McKinney Road			NGUYEN, NAM V		
Wexford, PA 15090			ART UNIT	PAPER NUMBER	
·			2635		

DATE MAILED: 01/12/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	-01
	09/975,276	CHORNENKY, T. ERIC	
Office Action Summary	Examiner	Art Unit	
	Nam V Nguyen	2635	
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the o	correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	I36(a). In no event, however, may a reply be tir ly within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a, cause the application to become ABANDONE	mely filed ys will be considered timely. In the mailing date of this communication (135 U.S.C. § 133).	ation.
Status			
1) Responsive to communication(s) filed on 12 C	October 2004.		
<u> </u>	s action is non-final.		
3) Since this application is in condition for allowa closed in accordance with the practice under the state of the state o			s is
Disposition of Claims		•	
4) ☐ Claim(s) 2-6,8-23,27-31 and 33-45 is/are pend 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) 8-13,34 and 37 is/are allowed. 6) ☐ Claim(s) 2,4-6,14-18,20-23,27-31,33,35,36 and 7) ☐ Claim(s) 3,19 and 41-45 is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	wn from consideration. ad 38-40 is/are rejected.		
Application Papers			
9)☐ The specification is objected to by the Examine 10)☐ The drawing(s) filed on 12 October 2004 is/are Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11)☐ The oath or declaration is objected to by the Examine 11.	e: a) accepted or b) objected drawing(s) be held in abeyance. Se tion is required if the drawing(s) is ob	e 37 CFR 1.85(a). ojected to. See 37 CFR 1.12	• •
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	ts have been received. Its have been received in Applicate ority documents have been received in PCT Rule 17.2(a)).	ion No ed in this National Stage	
Attachment(s)			
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:		

DETAILED ACTION

This communication is in response to applicant's response to an Amendment, which is filed October 12, 2004.

An amendment to the claims 1-32 has been entered and made of record in the application of Chornenky for a "human machine interface" filed October 10, 2001.

Claims 1, 7, 24-26 and 32 are cancelled. The new set of claims 33-45 are introduced.

Claims 2-6, 8-23, 27-31 and 33-45 are pending.

Response to Arguments

In view of applicant's amendment to amend the abstract to overcome the proper content, therefore, examiner has withdrawn the objection. However, Applicant is advised to submit the revised Abstract in a separated sheet of paper.

The corrected or substitute drawing were received on October 12, 2004. These drawing are accepted. Applicant is advised to submit new formal drawings including changes required by the proposed drawing correction filed on October 12, 2003, which has been approved by the examiner.

Applicant's amendment and arguments with respect to claims 1-32, filed October 12, 2004 have been fully considered but are moot in view of the new ground(s) of rejection.

On page 33, last paragraph, Applicant's arguments that claims 14-15 should be allowable since they depend from new claim 34. It should be noted that claims 14-15 are depend on claim 6 and not depend from claim 34.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 2, 16, 30-31, 33, 35-36 and 38-39, are rejected under 35 U.S.C. 103(a) as being unpatentable over Topping et al. (US# 5,751,835) in view of North et al. (US# 4,614,366).

Referring to claims 33, 35-36 and 38-39, Topping et al. disclose a method, apparatus and a human machine interface (i.e. a fingernail identification system) (column 3 lines 33 to 40; see Figures 7-8), comprising:

A data transmitter (450) (i.e. a CCD or photodiode array sensor) for transmitting at least one data signal (i.e. a CCD data) based upon physical properties of at least one of said human

nail (300) (i.e. a fingernail) and surrounding areas adjacent said human nail (340) (i.e. a finger) (column 6 lines 1 to 57; column 10 lines 1 to 35; see Figures 7 and 8); and

A validator controller (470) (i.e. a computer) connected to receive said at least one data signal (i.e. a digital signal from a CCD data), process information related to said at least one data signal and perform at least one action (i.e. any of several tasks) based upon processed information (column 10 lines 36 to 61; see Figure 8).

However, Topping et al. did not explicitly disclose a data transmitter in fixed contact with a human nail.

In the same field of endeavor of human nail identification system, North et al. teach that a data transmitter (20 or 60) (i.e. a portable scanner) in fixed contact with a human nail (11) (i.e. a fingernail surface when inserted into a portable scanner) (column 3 lines 59 to column 4 line 52; column 7 lines 51 to 67; see Figures 1 and 6) in order to obtain the best transmission strategy for transmitting a unique identification information of an individual data.

One of ordinary skilled in the art recognizes the need to have a data transmitter in fixed contact with a fingernail of North et al. in a CCD sensor assembly of a fingernail identification system of Topping et al. because Topping et al. suggest it is desired to provide that the physical and dimensional characteristics of the interface between nail bed and the underside of nail can be employed to uniquely identify individual and using a area-type charge coupled device sensor to integrate intensity value of individual pixels serially (column 6 lines 3 to 9; see Figures 7-8) and North et al. teach that a fingernail insert his fingernail into a receptacle for the scanner to read data information from his fingernail in order to provide identification for access control environment. Therefore, it would have been obvious to a person of ordinary skill in the art at the

time of the invention was made to have a data transmitter in fixed contact with a fingernail of North et al. in a CCD sensor assembly of a fingernail identification system of Topping et al. with the motivation for doing so would have been to provide a CCD sensor assembly in contact with a fingernail for identification of individual for access control environment.

Referring to claim 2, Topping et al. in view of North et al. disclose the human machine interface of claim 33, Topping et al. disclose a direct physical connection element (462) (i.e. hard-wire signal line) between the validator receiver (460) and the data transmitter (450); wherein the data signal (i.e. a CCD data) is transmitted through the direct physical connection element (462) (column 6 lines 1 to 28; see Figure 8).

Referring to claim 16, Topping et al. in view of North et al. disclose the human machine interface of claim 33, North et al. disclose a recording device (31) (i.e. a reference computer), the recording device (31) configured to log specific events occurring within the human machine interface and associated devices (column 7 lines 35 to 50; see Figure 1).

Referring to claims 30 and 31, Topping et al. in view of North et al. disclose the human machine interface of claim 36, Topping et al. disclose wherein the data signal communicated from the data transmitter to the validator controller is a correlation between a first spatial point associated with the data transmitter and a second spatial point; wherein the first spatial point is adjacent a user's nail and the second spatial point is on a screened monitor (column 7 lines 28 to 52; see Figure 8).

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Claims 4-6, 14, 17-18, 22 and 27-29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Topping et al. (US# 5,751,835) in view of North et al. (US# 4,614,366) as applied to claim 33, and in further view of Scott et al. (US# 6,484,260).

Referring to claims 4-5, Topping et al. in view of North et al. disclose the human machine interface of claim 33, however, Topping et al. in view of North et al. did not explicitly disclose further including a data transmitter power source powering said data transmitter.

In the same field of endeavor a biometric sensor system, Scott et al. disclose A data transmitter power source (i.e. power supply) powering the data transmitter (6) (i.e. a PID) (column 5 lines 16 to 26; column 6 lines 29 to 40; column 8 lines 15 to 29; see Figures 1 and 4) in order to supply power to the data transmitter.

At the time the invention, it would have been obvious to a person of ordinary skill in the art to recognize using a power source to supply power to the personal identification device of Scott et al. in a fingernail identification system of Topping et al. in view of North et al. because using an power source would improve the reliable communication to identify an individual biometric that has been shown to be desirable in the personal identification system for providing secure access to a host facility includes a fingernail identification system of Topping et al. in view of North et al.

Referring to claims 6 and 27, Topping et al. in view of North et al. disclose the human machine interface of claims 33 and 36, Scott et al. disclose a validator emitter (40) (i.e. a

transmitter module) configured to emit signals towards the data transmitter (6) (column 7 lines 15 to 23; column 10 line 58 to column 11 line 33; see Figures 1 and 7).

Referring to claim 14, Topping et al. in view of North et al. disclose the human machine interface of claim 6, Scott et al. disclose wherein the data transmitter (6) includes at least one capacitance plate (15) (i.e. a platen) secured to the human finger (i.e. when a human finger inserted into the portable scanner 60 of North et al.) (column 6 lines 41 to 53; column 13 lines 5 to 12; see Figure 1).

Referring to claims 17-18, Topping et al. in view of North et al. disclose the human machine interface of claim 33, Scott et al. disclose further comprising: a data transmitter protective layer (44) (i.e. housing) covering and protecting the data transmitter (6), wherein the protective layer does not interfere with communication of data signals between the data transmitter (6) and the validator controller (30) (column 2 lines 44 to 63; column 8 lines 14 to 39; see Figures 4A to 4D).

Referring to claim 22, Topping et al. in view of North et al. disclose the human machine interface of claim 33, Scott et al. disclose wherein the data signal (41) is encrypted prior to communication from the data transmitter (6) to the validator controller (30) (column 2 lines 15 to 39; column 7 lines 5 to 13; see Figure 1).

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Referring to claim 28, Topping et al. in view of North et al. and Scott et al. disclose the human machine interface of claim 27, Topping et al. disclose further comprising: a directional reflector configured to reflect the signals from the validator emitter only when received at a predetermined angle; and an electronic shutter adjacent the directional reflector and configured to modulate the data signal, wherein the external signal is received through the electronic shutter and by the reflector, and the data signal is reflected and modulated by the data transmitter, towards the validator controller (column 7 lines 28 to 67; see Figure 8).

Referring to claim 29, Topping et al. in view of North et al. disclose the human machine interface of claim 36, Scott et al. disclose wherein the data transmitter (6) further comprises a nail digital chip (18) (i.e. a processor circuit for processing biometric), the nail digital chip (18) containing at least one computer program (column 7 lines 5 to 14; column 8 line 66 to column 9 line 7; column 13 line 5 to 11; see Figure 1).

Claim 15 is rejected under 35 U.S.C. 103(a) as being unpatentable over Topping et al. (US# 5,751,835) in view of North et al. (US# 4,614,366) and Scott et al. (US# 6,484,260) as applied to claim 14, and in further view of Darrow et al. (US# 6,201,980).

Referring to claim 15, Topping et al. in view of North et al. and Scott et al. disclose the human machine interface of claim 14, however, Topping et al. in view of North et al. and Scott et al. did not explicitly disclose wherein said data transmitter further includes an inductor in

communication with said at least one capacitance plate for emitting said at least data signal towards said validator controller.

In the same field of endeavor a biometric sensor system, Darrow et al. disclose the data transmitter (101 and 102) (i.e. assemblies of a micro electro mechanical system) includes an inductor (106) (i.e. a planar inductor coil) in communication with said at least one capacitance plate (105) (i.e. conductive membrance) for emitting data signals towards said validator controller (18) (i.e. a telemetry device) (see Figures 1 and 6) in order to transmit signals of a measurement of the concentration of a chemical analyte of interest.

At the time the invention, it would have been obvious to a person of ordinary skill in the art to recognize using an inductor coupled to at least one capacitance plate and to transmit data signal to a telemetry device of Darrow et al. in a platen of a charge coupled device sensor connect to a transmitter module to transmit signals to a host system of Scott et al. in view of Topping et al. because using an inductor to configured to transmit data signal would improve the reliable communication to identify an individual biometric that has been shown to be desirable in the personal identification system for providing secure access to a host facility includes a biometric sensor device of Scott et al. in view of Topping et al.

Claim 20 is rejected under 35 U.S.C. 103(a) as being unpatentable over Topping et al. (US# 5,751,835) in view of North et al. (US# 4,614,366) as applied to claim 33, and in further view of Cambier et al. (US# 6,532,298).

Referring to claim 20, Topping et al. in view of North et al. disclose the human machine interface of claim 33, however, Topping et al. in view of North et al. did not explicitly disclose wherein the validator status actuator communicates with a controllable device logic circuit in a controllable device, the control device logic circuit in communication with a controllable device and configured to control the controllable device.

In the same field of endeavor a biometric identification system, Cambier et al. disclose a validator status actuator (210) (i.e. a microprocessor in the imager 100) communicates with a controllable device logic circuit (960) (i.e. a microprocessor of a controller system 940) in a controllable device (940) (i.e. a controller system), the control device logic circuit (210) in communication with a controllable device (940) and configured to control the controllable device (940) (column 15 lines 50 to column 16 line 11; see Figure 12) in order to grant an access to the vehicle or asset and to initiates commands to unlock the vehicle.

At the time the invention, it would have been obvious to a person of ordinary skill in the art to recognize connecting a microprocessor in the imager to a microprocessor of a controller system to initiates commands of the vehicle of Cambier et al. in a host processing unit of a host system connects to a trusted third party to provides services for several host systems of Topping et al. in view of North et al. because using a circuitry of an imager to control the circuitry of a controller system would improve a convenient way to control commands of a device remotely that has been shown to be desirable in the personal identification system for providing secure access to a host facility of Topping et al. in view of North et al.

Claim 21 is rejected under 35 U.S.C. 103(a) as being unpatentable over Topping et al. (US# 5,751,835) in view of North et al. (US# 4,614,366) as applied to claim 33, and in further view of Matchett et al. (US# 5,229,764).

Referring to claim 21, Topping et al. in view of North et al. disclose the human machine interface of claim 33, however, Topping et al. in view of North et al. did not explicitly disclose further comprising a timer device in communication with one of the validator controller and the data transmitter and configured to associate a time with an event.

In the same field of endeavor a biometric authentication system, Matchett et al. disclose a timer device (120) (i.e. a timer circuit) in communication with one of the validator controller (100) (i.e. a system) and the data transmitter (C) (i.e. a biometric input signal) and configured to associate a time with an event (column 5 lines 16 to column 6 line 28; see Figure 1) in order to collect biometric input signal and compare with a reference data periodically and intermittently.

At the time the invention, it would have been obvious to a person of ordinary skill in the art to recognize using a timer circuit in a system of Matchett et al. in a host systems of Topping et al. in view of North et al. because using a timer circuit would improve a convenient way to control commands of a device remotely with time that has been shown to be desirable in the personal identification system for providing secure access to a host facility of Topping et al. in view of North et al.

Claims 23 and 40 is rejected under 35 U.S.C. 103(a) as being unpatentable over Topping et al. (US# 5,751,835) in view of North et al. (US# 4,614,366) as applied to claim 33 and in further view of Dixit et al. (US# 6,449,472).

Referring to claim 23, Topping et al. in view of North et al. disclose the human machine interface of claim 33, however, Topping et al. in view of North et al. did not explicitly disclose further including a positioning system integrated with said human machine interface providing human machine interface location information to an external recipient.

In the same field of endeavor a biometric authentication system, Matched et al. disclose a positioning system (72) (i.e. global positioning system) integrated with the human machine interface (10) (i.e. system) and configured to provide human machine interface (10) location information to an external recipient (88) (i.e. dispatcher) (column 3 line 60 to 67; see Figure 1) in order to provide for remote assistance summoning of rescue authorities.

At the time the invention, it would have been obvious to a person of ordinary skill in the art to recognize using a global positioning system in a system of Dixit et al. in a host systems of Topping et al. in view of North et al. because using a global positioning system would provide a position of a system to control commands of a system remotely that has been shown to be desirable in the personal identification system of Topping et al. in view of North et al.

Referring to claim 40, Topping et al. in view of North et al. and in further view of Dixit et al. disclose the human machine interface of claim 23, Dixit et al. disclose wherein said positioning is a Global Positioning system (column 3 lines 40 to 54).

Allowable Subject Matter

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Claims 8-13, 34 and 37 are allowed.

Claims 3, 19 and 41-45 are objected to as being dependent upon a rejected base claim,

but would be allowable if rewritten in independent form including all of the limitations of the

base claim and any intervening claims.

Referring to claim 3, the following is a statement of reasons for the indication of

allowable subject matter: the prior art fail to suggest limitations wherein the data transmitter

includes at least one capacitance plate secured to said human nail for communicating with said

validator controller via said direct physical connection element; and a circuit return conductor.

Referring to claim 19, the following is a statement of reasons for the indication of

allowable subject matter: the prior art fail to suggest limitations that an adhesive layer between

the data transmitter and the human nail, the adhesive layer configured to non-permanently secure

the data transmitter to the human nail.

Referring to claims 41, 43 and 45, the following is a statement of reasons for the

indication of allowable subject matter: the prior art fail to suggest limitations that wherein said

at least one data signal transmitted is representative of a change in colorization of flesh under

said human nail for verifying that an individual's finger having said data transmitter affixed to

said human nail is pressing on a predetermined surface to indicate at least one of said individual wants to perform at least one of an action and transaction and to determine that said individual is alive.

Referring to claims 42 and 44, the following is a statement of reasons for the indication of allowable subject matter: the prior art fail to suggest limitations that wherein said human machine interface further includes a power source for powering a timer device which periodically reads at least one of a pulse and approximate blood oxygen content via at least one of said human nail and said surrounding areas adjacent said human nail to verify at least one of connection of said human nail to a predetermined individual, said predetermined individual is still alive and whether said predetermined individual's pulse indicates that one of said predetermined individual is under duress and under a drugged state (column 6 lines 29 to column 7 line 27; see Figure 8).

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

Conclusion

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nam V Nguyen whose telephone number is 703-305-3867. The examiner can normally be reached on Mon-Fri, 8:30AM - 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Horabik can be reached on 703-305-4704. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9314 for regular communications and 703-872-9314 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3900.

Nam Nguyen January 7, 2005

SUPERVISORY PATENT EXAMINER

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